



LAN Transformer 1G Base-T

Part No: TM82440ANL

Description:

1000 Base-T/1G transformer Single Port and 24pin SMT

Features:

AutoMDIX
Industrial grade
RoHS & REACH Compliant



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1. Introduction



Featuring a compatible footprint with industry LAN transformers, and designed to work in demanding industrial environmental conditions, the Taoglas TM82440ANL is a 1GBase-T Single Port of 24pin capable of AutoMDIX feature.

Typical applications for this cost-effective part are:

- Industrial Automation
- Hubs
- Routers
- Switches
- Wireless Access Points

The Taoglas Magnetics Product Team have over fifteen years of LAN magnetics design and high-quality manufacturing. With an ever-expanding portfolio, we provide trusted products and services to customers within a wide range of applications such as: Networking and Interconnect Devices, Servers, Switches, Router, Communication systems and any Digital Consumer electronics.

The Taoglas Exos Series offer an extensive product line of LAN Transformers designed for commercial and industrial grade applications, supporting 10/100 Base-T (Exos100 Series), 1G Base-T (Exos1G Series) and 10G Base-T (Exos10G Series). These products include Single, Dual, and Quad configurations not only for standard applications but also for Power over Ethernet (PoE, PoE+, PoE++).

For more information on the range of products or for assistance with integration, contact your regional Taoglas customer support team



2. Specifications

Electrical Performance @25°C					
Inductance OCL	350μH MIN @ 100KHz 0.1V 8mA DC Bias				
Turns Ratio (±5%)	TX=1CT: 1CT	RX=1CT: 1CT			
LL	0.4uH Max				
DCR	1.2Ω Max				
Insertion Loss	-1dB MAX (@ 1-100Mhz			
Return Loss	-18dB MIN	@ 1-30Mhz			
	-14.4dB MI	N @ 40Mhz			
	-13.1dB MI	N @ 50Mhz			
	-12dB MIN (@ 60-80Mhz			
Cross talk	-45dB MIN	N @ 30Mhz			
	-40dB MIN	N @ 60Mhz			
	-35dB MIN	@ 100Mhz			
DCMR	-40dB MIN	N @ 30Mhz			
	-35dB MIN	N @ 60Mhz			
	-30dB MIN	@ 100Mhz			
Hi-Pot	1500	Vrms			

Environmental Specifications				
Operating Temperature	-40°C TO +85°C			

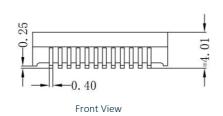
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

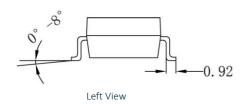
Storage requirements				
Humidity	Storage Temperature			
MSL - 1	-40°C TO +85°C			

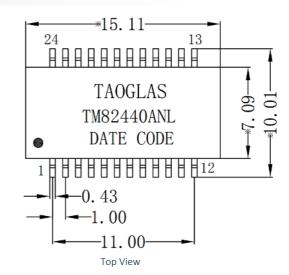


3. Mechanical

3.1 Mechanical Drawings



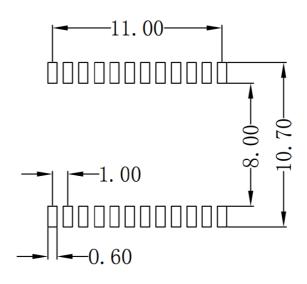




Mechanical Specifications				
Length	15.11 mm			
Width	10.01 mm			
Height	4.01 mm			
Mounting Style	Surface Mount (SMT)			

Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.25$

3.2 Pad Layout

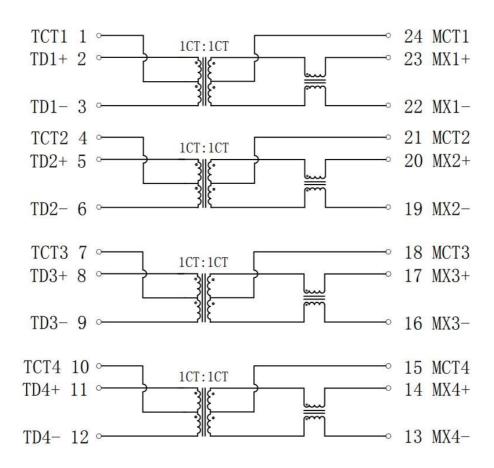


 $\label{eq:Suggested} \mbox{Suggested Pad Layout}$ Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10

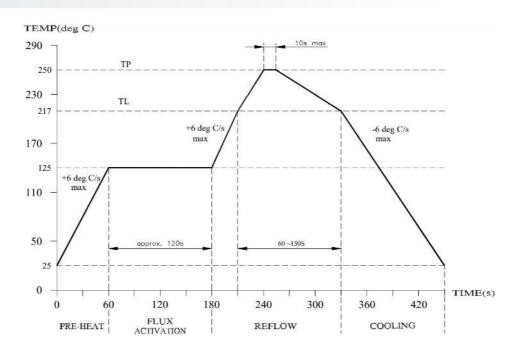


4. Electrical

4.1 Electrical Drawings



4.2 Profile of Reflow Solder





5. Packaging and Storage

5.1 SPQ

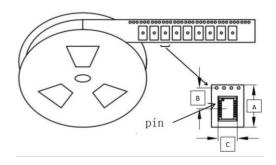
800 pcs/reel

A (Carrier Tape Width): 24±0.3 mm

B (Sprocket hole to Cavity center): 11.5±0.2 mm

C (Cavity width): 10.3±0.2 mm

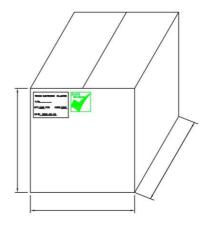
Reel weight: 900g



1CTN = 6 reels = 4800 pcs

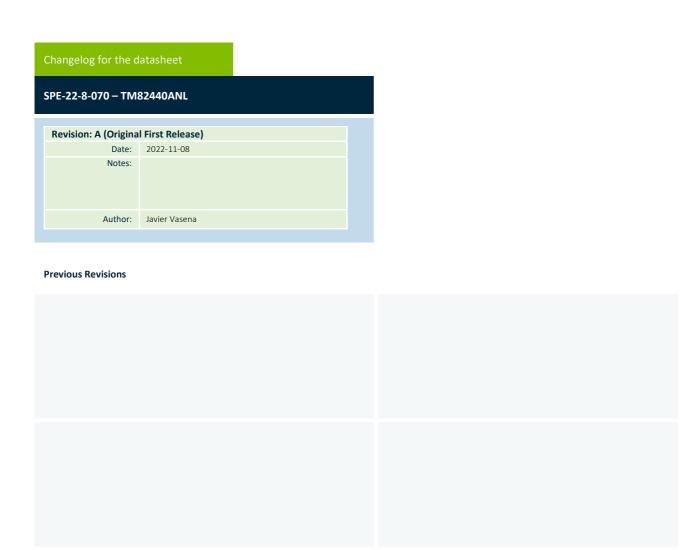
Carton dimensions: 370*370*250mm

Carton Weight: 7.5kg





Changelog







www.taoglas.com

